

COPY.

# Lloyd's Register of Shipping.

No. 1761

Port of BATAVIA, JAVA. N.E.I.

15th March, 1941.



This is to Certify that

I, W. A. ROBERTSON,

the undersigned Surveyor to this Society did at the request of

Messrs. N. V. Rotterdamsche Lloyd of BATAVIA, examin into the  
damage caused to the engines of the Steel Single Sc. Motor Vessel:

"TOENDJOEK" (Ex Rendsburg)

6200 tons gross of BATAVIA, No. 82123 in Register Book 1940/41,  
and report as follows:-

I visited the vessel shortly after her arrival at Tandjong  
Priok on January 31st 1941 and subsequent dates, as she lay made  
fast to the dock of Mesars. N. V. Rotterdamsche Lloyd, and found  
that severe damage had arisen shortly after setting out on her  
voyage to England. -"For further particulars see the ship's log"-

Upon examination of the engines it was:

## FOUND

That the engines had been  
operated with insufficient  
cooling water, heavy over-  
heating had taken place and  
several cylinder heads were  
cracked and leaking.

Broken telescope piping which  
caused the water dilution of  
the oil and the overheating  
of all working parts in both  
main engines.

## RECOMMENDED

That all cylinder heads be taken  
ashore and repaired and tested  
hot, under pressure, before  
being replaced all main valve  
seats to be skimmed true, and  
new heads made where required.

All telescope pipes to be taken  
down, examined, renewed, pressed  
and rebushed.

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This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:

"While the Committees of the Society use their best endeavours to ensure that the functions of the Society are properly  
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Committees or any Member thereof, or the Surveyors, or other Officers or Agents of the Society."



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FOUND

RECOMMENDED

Babbit melted out of cross-heads and many broken bearings.

To be rebabbitted where necessary.

Babbit had partly melted out of or broken in many of the main bearings.

To have the oil channels cleaned and to be rebabbitted where necessary.

Babbit in crankpin bearings overheated and run in places.

To be rebabbitted where required.

Crank casings heavily coated with mixture of salt, oil and babbit.

All crank cases, connecting rods, main bearings etc. to be washed down with scalding water under pressure.

Oil coolers clogged with sediment similar to that found in crank casings and not functioning properly.

To be overhauled, cleaned and repaired where necessary.

Old and un-repairable atomizers in use in Auxiliary Engines.

To procure or remake with complete set of spares. Atomizer holder heads to be refitted.

Holding down bolts on No.1 auxiliary broken.

New bolts to be fitted, and repairs made.

Exhaust pipe from auxiliary No.2 was sprung and partly collapsed.

That new piping be installed, and the Muffler be re wrapped with asbestos.

Internal cooling arrangements in pistons not satisfactorily installed and piston rings not fitting properly.

That pistons be opened and rearrangement of water distributing pipes be made where necessary. Also that ring grooves be carefully examined and new rings installed where necessary.

Exhaust control valve on exhaust heated boiler was seriously cracked and not working properly.

That a new control valve be installed.

Boiler tubes in exhaust heated boiler were leaking also tubes in superheater.

That new tubes be installed where necessary and that superheater be examined.



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FOUNDRECOMMENDED

Catch water tank for returns from steam units was too small.

Another tank of equal size be installed.

Donkey Boiler unclassified at Singapore with blister on furnace tube and leaking rivets in combustion chamber.

Repair and restay blister, caulk rivets and weld furnace tube to combustion chamber. Replace boiler tube found defective.

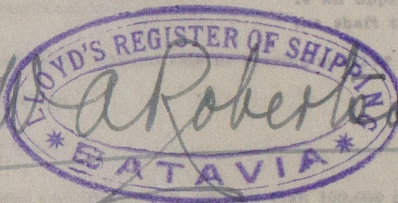
Feed Pumps unable to supply sufficient water to Boilers found steam pistons and valves leaking.

Repair pistons and renew oscillating steamvalves.

The above mentioned repairs have been carried out to my satisfaction.

A copy of this report has been sent to Lloyd's Register of Shipping, London.

FEE & EXPENSES = f.287.50.  
(Guilders: Two Hundred --)  
(Eighty Seven & 50/100.)

SURVEYOR TO

Observations, Findings, and Recommendations



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